

R-6000, PR-6000 Series Manifold Mounted Pressure Regulator



FEATURES

- Manifold Mount
- Modular Dovetail Design
- Excellent Repeatability
- Automatic Relief
- Low Cost

The Manifold Mounted Precision Pressure Regulators are designed to mount directly on pneumatic circuit boards or manifold subplates. The port connections for the supply and output are located on the base of the manifold mounted series regulator. Two recessed Buna-N o-rings are supplied for sealing the regulator to the manifold.

The Manifold Mounted Regulators are available in two models: **The Adjustable Precision Regulator** has a 20-turn adjustment range from .5 to 100 PSI. Maximum supply is 150 PSI. Four adjustment ranges are available: 10 PSI, 30 PSI, 60 PSI, and 100 PSI.

The Adjustable Regulator is furnished with an adjustment knob and is also available with an extended 1/4" shaft to accept an adjusting knob or furnished with an exposed screwdriver adjustment by which the pressure range can be adjusted.

The Preset Precision Regulator is designed to produce a precise output pressure that is preset at the factory, 0.5 to 40 PSI using a 100 PSI supply.

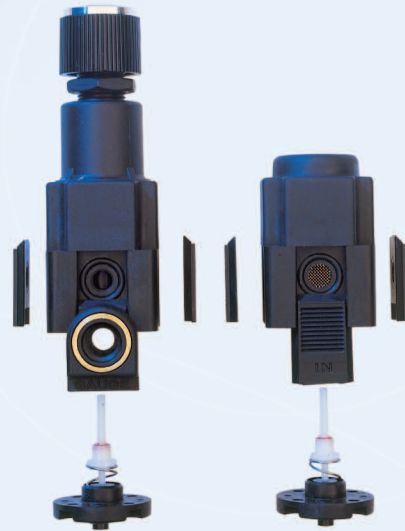
The preset regulator is available with a recessed allen wrench adjustment or a removable adjustment knob.

The **Unique Modular Dovetail** design allows the regulator to be used individually or assembled into a modular combination of pneumatic components.

Port Connections Available

- Threaded Port
- Connector
- Union
- Gauge Port
- Blank Slides
- Push-in Fitting

Patent numbers 5,217,260 & 5,261,447



Unique Modular Dovetail Design

SPECIFICATIONS

Adjustment Range: Adjustment Model, 0.5 to 100 PSI
Preset Model, 0.5 to 40 PSI

Maximum Supply: 150 PSI

Operating Temperature: 40° to 150° F (4° to 66°C)

Recommended Filtration: 5 Micron

Effect of Supply Variation: Within .1 PSI output change with 10 PSI supply change

Flow Regulator: Maximum flow 5 SCFM with 100 PSI supply

Repeatability: Within .1 PSI when the supply pressure is turned off and on

Drift: At 75°F. 0.1 PSI total drift

Supply Consumption: Within 400 cc/m at 100 PSI supply, with a deadend output

MATERIALS

Housing: Glass filled Celcon

Adjustment Screw: Carbon filled Nylon

Retaining Ring: Carbon Spring Steel

Stem Assembly: Celcon

Diaphragm: Buna N, Polyurethane

Diaphragm Assembly: Celcon

Springs: Stainless Steel

O-Rings: Buna N, Silicone Nitrile

Valve Seat: PVC

Filter: Stainless Steel 304, Micron size 380

Manifold Mount Screws: Zinc

PORT CONNECTIONS

Threaded Dovetail: A Modular Dovetail Slide with 10-32 UNF, 1/8-27 NPT, 1/4-18 NPT thread sizes. The 1/8" and 1/4" NPT contain a brass hooping insert. The 1/8" and 1/4" gauge port is available. During assembly, fittings should be finger tight plus one turn.

Union Dovetail: A Modular Dovetail Slide with a thru hole joining two units together with a common air supply.

Connecting Dovetail: A Modular Connecting Dovetail Slide with no hole joining two units together with no common air supply.

Gauge Dovetail: A Modular Dovetail Slide with 1/8-27 NPT or 1/4-18 NPT thread sizes. The Dovetail Slide has the word "gauge" molded into the slide. 2 Blank Dovetail Slides are supplied as standard.

Blank Dovetail: Available for 5/32", 3/16", 1/4", 5/16", 4mm and 6mm O.D. Tubing.

MOUNTING

Manifold Mounting: .115 diameter mounting holes - use 4-40 mounting screws

Mounting Base: An Air Logic manifold mounting base is available. 10-32 UNF threaded input and output ports.